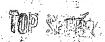
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SUBJECT: EPHEMERIS GENERATION

SEVERAL QUESTIONS HAVE ARISEN REGARDING TELEMETRY DATA RECEIVED BEGINNING EACH REV ON REQUESTS CLARIFICATION ON

25X1

FOLLOWING:

TOPSECRET

1. RE THE X,Y,Z POSITION VECTORS, FIRST AND SECOND TIME DERI-VATIVES: THESE VALUES ARE DEFINED IN A GEOCENTRIC INERTIAL REFERENCE FRAME. AT WHAT TIME IS THIS REFERENCE FRAME DEFINED? NEED THESE VECTOR VALUES BE CORRECTED FOR PRECESSION AND NUTATION?

2. RE EPHEMERIS ITEMS PRODUCED AT PHOTO EXPOSURE TIMES: WHAT TYPE OF INTERPOLATION IS USED ON THE VECTOR POSITIONS TO PRODUCE SAID ITEMS? IS A LAGRANGIAN FIFTH ORDER INTERPOLATION SUFFICIENT TO PRESERVE ACCURACY? SEND ANSWER

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END OF MESSAGE

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